Author index

Abbott, L. K. *see* Jakobsen, I.
Andrew Smith, F. *see* Ezawa, T.
Anta, B. *see* Díez, J.
Apostolakos, P. *see* Komis, G.
Ashford, A. E. *see* Briggs, C. L.
Auguy, F. *see* Duhoux, E.
Ayer, F. *see* Peter, M.
Ayling, S. M. *see* Cavagnaro, T. R.
Ayres P. & Ingram J. Change for good reason, 1
Ayres P. Welcome to new editors, 153

Bachmann, K. Species concepts – the continuing debate, 367
Bagchi, S. N. *see* Ray, S.
Bago, B. Pfeffer, P. & Shachar-Hill, Y. Could the urea cycle be translocating nitrogen in the arbuscular mycorrhizal symbiosis?, 4
Bala, A. & Giller, K. E. Symbiotic specificity of tropical tree rhizobia for host legumes, 495
Balestrini, R. *see* Tagu, T.
Barton, C. V. M. *see* Medlyn, B. E.
Berry, S. L. *see* Roderick, M. L.
Betti, L. *see* Marini, F.
Biondi, S. *see* Marini, F.
Black, C. R. *see* Donnelly, A.
Blodgett, J. T. *see* Stanosz, G. R.
Bødker, L. *see* Larsen, J.
Bogusz, D. *see* Duhoux, E.
Bonfante, P. *see* Tagu, T.
Borderies, G. *see* Mercier, L.
Bowyer, P. *see* Carzaniga, R.
Bradford, K. J. Early germination events – a personal perspective, 163
Brandes, B. *see* Jentschke, G.
Briand, X. *see* Mercier, L.
Briggs, C. L. & Ashford, A. E. Structure and composition of the thick wall in hair root epidermal cells of *Woollsia pungens*, 219
Broadmeadow, M. S. J. *see* Medlyn, B. E.
Bruns, T. D. *see* Lilleskov E.
Bucher, J. B. *see* Siegwolf, R. T. W.

Cannell, M. G. R. *see* Saxe, H.
Carzaniga, R., Bowyer, P. & O'Connell, R. J. Production of extracellular matrices during development of infection structures by the downy mildew *Peronospora parasitica*, 83
Cavagnaro, T. R., Smith, F. A., Lorimer, M. F., Haskard, K. A., Ayling, S. M. & Smith, S. E. Quantitative development of *Paris*-type arbuscular mycorrhizas formed between *Asphodelus fistulosus* and *Glomus coronatum*, 105
Ceulmans, R. *see* Medlyn, B. E.
Chaffey, N. J. A timely celebration of trees, 365
Clapp, J. P., Rodriguez, A. & Dodd, J. C. Inter- and intraisolate rRNA large subunit variation in *Glomus coronatum* spores, 539
Cogan, A. *see* Reignault, Ph.
Coleman, J. S. *see* DeLucia, E. H.
Colls, J. J. *see* Donnelly, A.
Craigon, J. *see* Donnelly, A.
Curtis, P. S. *see* Gavito, M. E.
Curtis, P. S. *see* Medlyn, B. E.

Dawson, T. E. *see* DeLucia, E. H.
De Angelis, P. *see* Medlyn, B. E.
De Bellis, R. *see* Tagu, T.
DeLucia, E. H., Coleman, J. S., Dawson, T. E. & Jackson, R. B. Plant physiological ecology: linking the organism to scales above and below, 12
De Vries, O. M. H. *see* Tagu, T.
Del Pero, M. *see* Lacourt, I.
Deléens, E. *see* Merah, O.
Diem, H. G. *see* Duhoux, E.
Díez, J., Anta, B., Manjón, J. L. & Honrubia, M. Genetic variability of *Pisolithus* isolates associated with native hosts and exotic eucalyptus in the western Mediterranean region, 577
Dodd, J. C. *see* Clapp, J. P.
Dommergues, Y. *see* Duhoux, E.
Donnelly, A., Craigon, J., Black, C. R., Colls, J. J. & Landon, G. Elevated CO_2 increases biomass and tuber yield in potato even at high ozone concentrations, 265
Duhoux, E., Rinaudo, G., Diem, H. G., Auguy, F., Fernandez, D., Bogusz, D., Franche, C., Dommergues, Y. & Huguenin, B. Angiosperm *Gymnostoma* trees produce root nodules colonized by arbuscular mycorrhizal fungi related to *Glomus*, 115
Durand, R. *see* Reignault, Ph.

Egli, S. *see* Peter, M.
Ernst, M. *see* Wirsel, S. G. R.
Esquerré-Tugayé, M. T. *see* Mercier, L.
Ezawa, T., Smith, S. E. & Andrew Smith, F. Differentiation of polyphosphate metabolism between the extra- and intraradical hyphae of arbuscular mycorrhizal fungi, 555

Feist, L. J. & Parker, D. R. Ecotypic variation in selenium accumulation among populations of *Stanleya pinnata*, 61
Fernandez, D. *see* Duhoux, E.
Forbes, L. Science and the visual arts, 17
Forestreuter, M. *see* Medlyn, B. E.
Fournier, J. *see* Mercier, L.
Franche, C. *see* Duhoux, E.
Freeman, M. *see* Medlyn, B. E.

Galatis, B. *see* Komis, G.
Garnier, E. *see* Lavorel, S.

Gavito, M. E., Curtis, P. S. & Jakobsen, I. Neither mycorrhizal inoculation nor atmospheric CO_2 concentrations has strong effects on pea root production and root loss, 283
Gazey, C. *see* Jakobsen, I.
Giller, K. E. *see* Bala, A.
Gil-Rodríguez, M. C. *see* Mercado, J. M.
Girlander, M. *see* Lacourt, I.
Godbold, D. L. *see* Jentschke, G.
Gordon, C., Wynn, J. M. & Woodin, S. J. Impacts of increased nitrogen supply on high Arctic heath: the importance of bryophytes and phosphorus availability, 461
Gower, L. B. *see* Pennisi, S. V.
Graham J. H. What do root pathogens see in mycorrhizas?, 357
Gremmen, N. J. M. *see* Smith, V. R.
Günhardt-Goerg, M. S. *see* Siegwolf, R. T. W.

Hartley, S. E. Induced plant resistance, 366
Haskard, K. A. *see* Cavagnaro, T. R.
Hogetsu, T. *see* Wu, B.
Hogetsu, T. *see* Zhou, Z.
Honrubia, M. *see* Díez, J.
Houle, G. *see* Reynolds, C. E.
Huguenin, B. *see* Duhoux, E.

Jackson, R. B. *see* DeLucia E. H.
Jackson, S. B. *see* Medlyn, B. E.
Jakobsen, I. *see* Gavito, M. E.
Jakobsen, I., Gazey, C. & Abbott, L. K. Phosphate transport by communities of arbuscular mycorrhizal fungi in intact soil cores, 95
Jarvis, P. G. *see* Medlyn, B. E.
Jay-Allgmand, C. *see* Lagrange, H.
Jentschke, G., Brandes, B., Kuhn, A. J., Schröder, W. H. & Godbold, D. L. Interdependence of phosphorus, nitrogen, potassium and magnesium translocation by the ectomycorrhizal fungus *Paxillus involutus*, 327
Johnsen, Ø. *see* Saxe, H.
Jwa, N.-S. & Walling, L. L. Influence of elevated CO_2 concentration on disease development in tomato, 509

Kane, M. E. *see* Pennisi, S. V.
Kellomäki, S. *see* Medlyn, B. E.
Kelly, J. M. *see* Samuelson, L. J.
Komis, G., Apostolakos, P. & Galatis, B. Altered patterns of tubulin polymerization in dividing leaf cells of *Chlorophyton comosum* after a hyperosmotic treatment, 193
Kruger, E. L. *see* Stanosz, G. R.
Kuhn, A. J. *see* Jentschke, G.

Lacourt, I., Girlander, M., Perotto, S., Del Pero, M., Zuccon, D. & Luppi, A. M. Nuclear ribosomal sequence analysis of *Oidiodendron*: towards a redefinition of ecologically relevant species, 565
Lafitte, C. *see* Mercier, L.
Lagrange, H., Jay-Allgmand, C. & Lapeyrie, F. Rutin, the phenolglycoside from eucalyptus root exudates, stimulates *Pisolithus* hyphal growth at picomolar concentrations, 349
Laitat, E. *see* Medlyn, B. E.
Landon, G. *see* Donnelly, A.
Lapeyrie, F. *see* Lagrange, H.
Larsen, J. & Bødker, L. Interactions between pea root-inhabiting fungi examined using signature fatty acids, 487
Lavorel, S. Aardvark to *Zyzyxia* – functional groups across kingdoms, 360
Legnani, G. & Miller, W. B. Short photoperiods induce fructan accumulation and tuberous root development in *Dahlia* seedlings, 449
Leibinger, W. *see* Wirsel, S. G. R.
Lilleskov, E. Nitrogen and ectomycorrhizal fungal communities: what we know, what we need to know, 156
Lombi, E., Zhao, F. J., Mcgrath, S. P., Young, S. D. & Sacchi, G. A. Physiological evidence for a high-affinity cadmium transporter highly expressed in a *Thlaspi caerulescens* ecotype, 53
Lorimer, M. F. *see* Cavagnaro, T. R.
Lounes-Hadj Sahraoui, A. *see* Reignault, Ph.
Lucansky, T. *see* Pennisi, S. V.
Luppi, A. M. *see* Lacourt, I.

Manjón, J. L. *see* Díez, J.
Marini, F., Betti, L., Scaramagli, S., Biondi, S. & Torrigiani, P. Polyamine metabolism is upregulated in response to tobacco mosaic virus in hypersensitive, but not susceptible, tobacco, 301
Marquis, C. *see* Reynolds, C. E.
Martin, F. *see* Tagu, T.
Matyssek, R. *see* Siegwolf, R. T. W.
Maurer, S. *see* Siegwolf, R. T. W.
McConnell, D. B. *see* Pennisi, S. V.
McCutchan, C. L. & Monson, R. K. Night-time respiration rate and leaf carbohydrate concentrations are not coupled in two alpine perennial species, 419
McGrath, S. P. *see* Lombi, E.
McGrath, S. P., Lombi E. & Zhao, F.-J. What's new about cadmium hyperaccumulation?, 2
Medlyn, B. E., Barton, C. V. M., Broadmeadow, M. S. J., Ceulmans, R., De Angelis, P., Forestreuter, M, Freeman, M., Jackson, S. B., Kellomäki, S., Laitat, E., Rey, A., Roberntz, P., Sigurdsson, B. D., Strassemayer, J., Wang, K., Curtis, P. S. & Jarvis, P. G. Stomatal conductance of forest species after long-term exposure to elevated CO_2 concentration: a synthesis, 247
Mendgen, K. *see* Wirsel, S. G. R.
Merah, O., Deléens, E., Souyris, I. & Monneveux, P. Ash content might predict carbon isotope discrimination and grain yield in durum wheat, 275
Mercado, J. M., Xavier Niell, F. & Gil-Rodríguez, M. C. Photosynthesis might be limited by light, not inorganic carbon availability, in three intertidal Gelidiales species, 431
Mercier, L., Lafitte, C., Borderies, G., Briand, X., Esquerré-Tugayé, M. T. & Fournier, J. The algal polysaccharide carrageenans can act as an elicitor of plant defence, 43
Miller, W. B. *see* Legnani, G.
Miwa, M. *see* Zhou, Z.
Monneveux, P. *see* Merah, O.

Monson, R. K. *see* McCutchan, C. L.
Morison, J. I. L. Increasing atmospheric CO_2 and stomata, 154
Muchembled, J. *see* Reignault, Ph.

Nara, K. *see* Wu, B.

O'Connell, R. J. *see* Carzaniga, R.

Parker, D. R. *see* Feist, L. J.
Payne, W. *see* Winkel, T.
Pennisi, S. V., McConnell, D. B., Gower, L. B., Kane, M. E. & Lucansky, T. Periplasmic cuticular calcium oxalate crystal deposition in *Dracaena sanderiana*, 209
Perotto, S. *see* Lacourt, I.
Peter, M., Ayer, F. & Egli, S. Nitogen addition in a Norway spruce stand altered macromycete sporocarp production and below-ground ectomycorrhizal species composition, 311
Pfeffer, P. *see* Bago, B.
Piccoli, G. *see* Tagu, T.

Ray, S. & Bagchi, S. N. Nutrients and pH regulate algicide accumulation in cultures of the cyanobacterium *Oscillatoria laetevirens*, 455
Reignault, Ph., Cogan, A., Muchembled, J., Lounes-Hadj Sahraoui, A., Durand, R. & Sancholle, M. Trehalose induces resistance to powdery mildew in wheat, 519
Renno, J.-F. *see* Winkel, T.
Rey, A. *see* Medlyn, B. E.
Reynolds, C. E., Houle, G. & Marquis, C. Light and salinity affect growth of the salt marsh plant *Aster laurentianus*, 441
Rinaudo, G. *see* Duhoux, E.
Roberntz, P. *see* Medlyn, B. E.
Roderick, M. L. & Berry, S. L. Linking wood density with tree growth and environment: a theoretical analysis based on the motion of water, 473
Rodriguez, A. *see* Clapp, J. P.
Ryan, M. G. *see* Saxe, H.

Sacchi, G. A. *see* Lombi, E.
Samuelson, L. J. & Kelly, J. M. Scaling ozone effects from seedlings to forest trees, 21
Sancholle, M. *see* Reignault, Ph.
Sattelmacher, B. The apoplast and its significance for plant mineral nutrition, 167
Saurer, M. *see* Siegwolf, R. T. W.
Saxe, H., Cannell, M. G. R., Johnsen, Ø., Ryan, M. G. & Vourlitis, G. Tree and forest functioning in response to global warming, 369
Scaramagli, S. *see* Marini, F.
Schmutz, P. *see* Siegwolf, R. T. W.
Schröder, W. H. *see* Jentschke, G.
Schultze, M. Mycorrhizae research, 19
Schultze, M. Plant–microbe molecular communication, 164
Sellose, M.-A. Adding pieces to fungal mosaics, 159
Shachar-Hill, Y. *see* Bago, B.
Siegwolf, R. T. W., Matyssek, R., Saurer, M., Maurer, S., Günhardt-Goerg, M. S., Schmutz, P. & Bucher, J. B. Stable isotope analysis reveals differential effects of soil nitrogen and nitrogen dioxide on the water use efficiency in hybrid poplar leaves, 233
Sigurdsson, B. D. *see* Medlyn, B. E.
Smith, C. J. *see* Tang, M.
Smith, D. R. *see* Stanosz, G. R.
Smith, F. A. *see* Cavagnaro, T. R.
Smith, S. E. *see* Cavagnaro, T. R.
Smith, S. E. *see* Ezawa, T.
Smith, V. R. & Gremmen, N. J. M. Photosynthesis in a sub-Antarctic shore-zone lichen, 291
Souyris, I. *see* Merah, O.
Stanosz, G. R., Blodgett, J. T., Smith, D. R. & Kruger, E. L. Water stress and *Sphaeropsis sapinea* as a latent pathogen of red pine seedlings, 531
Stocchi, V. *see* Tagu, T.
Strassemayer, J. *see* Medlyn, B. E.

Tagu, T., De Bellis, R., Balestrini, R., De Vries, O. M. H., Piccoli, G., Stocchi, V., Bonfante, P. & Martin, F. Immunolocalization of hydrophobin HYDPt-1 from the ectomycorrhizal basidiomycete *Pisolithus tinctorius* during colonization of *Eucalyptus globulus* roots, 127
Tang, M. & Smith, C. J. Elicitor induced defence responses in *Medicago sativa*, 401
Torrigiani, P. *see* Marini, F.

Vourlitis, G. *see* Saxe, H.

Walling, L. L. *see* Jwa, N.-S.
Wang, K. *see* Medlyn, B. E.
Willis, A. J. Endangered plants in Iran, 165
Winkel, T., Payne, W. & Renno, J.-F. Ontogeny modifies the effect of water stress on stomatal control, leaf area duration and biomass partitioning of *Pennisetum glaucum*, 71
Wirsel, S. G. R., Leibinger, W., Ernst, M. & Mendgen, K. Genetic diversity of fungi closely associated with common reed, 589
Woodin, S. J. *see* Gordon, C.
Wu, B., Nara, K. & Hogetsu, T. Cytochemical and ultrastructural analysis of the cell walls and extracellular matrices around conidia and infection structures of *Peranospora parasitica*, 137
Wynn, J. M. *see* Gordon, C.

Xavier Niell, F. *see* Mercado, J. M.

Young, P. Molecular biology of the *Rhizobiiaceae*, 17
Young, S. D. *see* Lombi, E.

Zhao, F. J. *see* Lombi, E.
Zhou, Z., Miwa, M. & Hogetsu, T. Polymorphism of simple sequence repeats reveals gene flow within and between ectomycorrhizal *Suillus grevillei* populations, 339
Zuccon, D. *see* Lacourt, I.

Keyword index

ABA, 509
acclimation, 247
acid phosphatase, 555
acidic vacuole, 555
active oxygen, 401
adhesion, 83
air pollution, 21
algal polysaccharides, 43
algicide production, 455
alpine, 419
AM fungi, 105
anti-GM, 9
Aphanomyces euteiches, 357
Apoplast, 167
appressoria, 83
arbuscular mycorrhiza, 115, 283, 487
arbuscular mycorrhizal fungi, 555
arbuscular mycorrhizas, 4, 357
arbusculate coils, 105
Arctic heath, 461
arginase, 4
arginine decarboxylase (ADC), 301
arginine, 4
Armillaria, 159
Asphodelus fistulosus, 105
Aster laurentianus, 441
Atmospheric CO_2, 154

basidiomycetes, 159
benomyl, 95
bioassay, 455
biocontrol, 487
biomass partitioning, 71, 233
biomineralization, 209
Blumeria graminis, 519

cadmium, 3, 53
calcium oxalate, 209
Calliandra calothyrsus, 495
canker, 531
carbohydrate partitioning, 449
carbohydrate, 419
carbon dioxide, 265
carbon export, 419
carbon isotope discrimination, 275
carbonic anhydrase, 431
carrageenan, 43
Casusrinaceae, 115
cell wall, 127
cell walls, 167
cheaters, 159
chimera, 159
chlorophyll fluorescence, 291
Chlorophyton comosum, 193
Cistus, 577
classification, 360
Climate change, 154
collar rot, 531
common reed, 589
community structure, 156
compartment, 95
conidia, 83
critical load, 461
crop water balance, 71
cyanobacteria, 455

Dahlia, 449
defence responses, 401
diamine oxidase (DAO), 301
Dicranum scoparium, 461
dikaryons, 159
disease, 509
dividing leaf cells, 193
dry mass per unit of leaf area, 275

ECM fungi, 339
ecosystem function, 360
ecosystem physiology, 12
ecosystem processes, 12
ecotype, 61
ecotypes, 3, 53
ectomycorrhiza, 127, 137, 311, 349
ectomycorrhizal fungi, 156
ectomycorrhizal fungus, 577
elevated [CO_2], 247
elevated carbon dioxide (CO_2), 509
elevated carbon dioxide, 283
Elevated CO_2 concentration, 154
elevated CO_2, 473
elicitor, 43
endomycorrhizal ericoid fungi, 565
endophyte, 531
endophytic fungi, 589
ericoid mycorrhiza, 219
Erysiphe graminis, 519
eucalypt, 349
Eucalyptus, 577
exopolyphosphatase, 555
external mycelium, 327
extracellular crystals, 209
extracellular matrix, 83

fixation, 495
flavonoid, 349
flavonol, 349
forest trees, 21
forests, 247
fructans, 449
fruitbody, 159
Functional group, 360
functional types, 461
fungal biodiversity, 589
fungal diversity, 156
fungal ecology, 589
fungus, 349

Gas exchange, 154, 233
Gelidiales, 431
gene flow, 339
genetic differentiation, 339
genetic engineering, 9
genetic modification (GM), 9
genetic variation, 539
Gliricidia sepium, 495
global biochemical cycles, 12
Global carbon, 154
global change, 360
global warming, 369
Glomus coronatum, 105, 539
Glomus invermaium, 95
Glomus mosseae, 357
grain yield, 275
growth analysis, 71
guild, 360
Gymnostoma, 115

H_2O_2 accumulation, 401
hair roots, 219
haploidization, 159
helicoidal walls, 219
hydrophobin, 127
hyperaccumulation, 3, 53
hyperaccumulator, 61
hyperosmotic treatment, 193
hypersensitive response (HR), 301
hyphal coils, 105
hyphal P transport, 95

Îles de la Madeleine, 441
indicator groups, 360
induced resistance, 519
infection structures, 83
inorganic carbon, 431
inorganic nitrogen, 291
interdependence magnified intersects technique (IMIT), 105
intermittent drought, 71
internal transcribed spacers, 577
intertidal, 431
inulin, 449
ion relations, 167
ion transport, 167
irradiance, 419
ITS region, 311

laminarin, 43
latent pathogen, 531
leaf area index, 71
leaf area ratio, 441
leaf mass ratio, 441
lectins, 83
Leucaena leucocephala, 495
lichen photosynthesis, 291
life-cycle, 159
light, 291

macroalgae, 431
macrofungi, 311
macrotubules, 193
magnesium translocation, 327
Mastodia tesselata, 291
Medicago sativa, 401
Mediterranean conditions, 275
meta-analysis, 247
mineral content, 275
mineral nutrition, 167
model parameters, 247
moisture, 291
molecular identification, 156
morphogenesis, 115
Mosaic, 159
multinomial, 105
mycelium, 127
mycorrhizal nodule, 115
mycorrhizosphere, 357

δ15N, 233
N_2, 495
neutral fatty acids, 357
neutral lipid fatty acids, 487
Neutral red, 555
Nicotiana tabacum (tobacco), 43, 301
nitrogen deposition, 311
nitrogen fertilization, 473
nitrogen translocation, 327
nitrogen, 4, 154, 233, 461
NO_2, 233
northern red oak, 21
nutrient availability, 156
nutrient effects, 455
nutrient transfer, 4

Oidiodendron citrinum, 565
Oidiodendron griseum, 565
Oidiodendron maius, 565
Oidiodendron tenuissimum, 565
ontogeny, 71
organismal adaptation, 12
ornithine decarboxylase (ODC), 301
Oscillatoria laetevirens, 455
ozone uptake, 21
ozone, 21, 265

^{32}P, 95
PAL activity, 401
Paxillus involutus, 327
PCR identification, 156
PCR-RFLP, 311
pea, 357
Pennisetum glausum, 71
Peronospora parasitica, 83
phenology, 369
phospholipid fatty acids, 487
phosphorus translocation, 327
phosphorus, 461
photoperiod, 449
photosynthesis, 431
Phragmites australis, 589
phylogeny, 565
physiology, 369
phytoalexins, 401
Phytophthora parasitica, 509
phytoremediation, 3, 53, 61
Picea abies, 327
Pinus densiflora, 137
Pinus resinosa (red pine), 531
Pinus, 577
Pisolithus, 577
plant breeding, 9
plant crystals, 209
plant defence, 43
plant physiological ecology, 12
polyamines, 301
polyphosphate, 4, 555
Polytrichum juniperinum, 461
population, 339
populations, 61
Populus x *euramericana*, 233
potassium translocation, 327
potato, 265
powdery mildew, 519
PR proteins, 509
pro-GM, 9

quantum yield, 431
quercitrin, 349
Quercus ilex, 577
Quercus rudra, 21

Raunkiaer, 360
recombinant DNA technologies, 9
recovery, 461
relative growth rate, 441
respiration, 419
δ13C – δ18O response, 233
Rhizobium, 495
ribosomal DNA, 577
root length, 283
root loss, 283
root pathogen, 487
root pathogens, 357
root production, 283
root rot, 509
root-free soil, 95
rRNA large subunit, 539
rutin, 349

SA, 509
S-adenosylmethionine decarboxylase (SAMDC), 301
salinity, 291
salt marshes, 441
selenium, 61
semiarid tropics, 71
Sesbania sesban, 495
shoot blight, 531
signal, 349
signature fatty acids, 487
Solanum tuberosum, 265
species diversity, 311
Sphaeropsis sapinea, 531
spore dispersal, 339
sporocarp production, 156
ß-1,3-glucans, 83
SSCP, 539
SSR microsatellite marker, 339
stable isotopes, 233
Stanleya pinnata, 61
stomatal conductance, 21, 154, 247
sub-Antarctic, 291

Suillus grevillei, 339
symbiosis, 127
systematics, 565

temerature, 291
Thlaspi caerulescens, 3, 53
time course of development, 105
tobacco mosaic virus (TMV), 301
^{14}C transfer, 137
translocation, 3, 53
Transpiration, 154
tree and forest functioning, 369
tree hydraulics, 473
tree, 127
trehalose, 519
Trifolium subterraneum, 95
Triticum aestivum, 519
Triticum durum (durum wheat), 275
trophic interactions, 357
tropical tree legumes, 495
tuber yeild, 265
tubulin crystals, 193
Turgidiusculum complicatulum, 291
turnover, 283

undisturbed soil cores, 95
unit leaf rate, 441
uptake kinetics, 3, 53
urea cycle, 4

viscosity, 473
volatilization, 61
vulnerable plant species, 441

Water status, 154
water stress, 531
water temperature, 473
water-use efficiency, 71
Westoby, 360
wetlands, 589
wheat, 519
wood density, 473
Woollsia pungens, 219

zinc, 3, 53